Survey on Content, Target Audience and Format Highway Safety Manual

Process and Results

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- Geni Bahar
- Michael Dimainta
- Dick Raub
- Lisa Fontana
- Jennifer Rosales
- Ingrid Potts
- Harry Taylor

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Process

- · Development of the Survey
- Development of Email List (300 + ITE:3000)
- Survey Adaptation and Posting on the WEB Testing/Acceptance Open (Feb-June 2002)
- Development of a Introduction Letter and Background Information re: HSM
- Development of Personal and Group Emails
- Sending invitations (Feb 2002)
- Response Collection (320 288 single ones).
 Processing and Documentation

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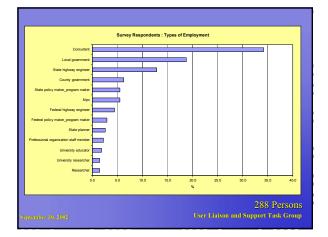
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1. Employment Type

- Federal Policy Maker/Program Manager
- Tederal Highway Engineer
- ☐ Federal Planners
- □ State Policy Maker/Program Manager
 - 1 State Highway Engineer
- State Planner
- l County Governmen
- □ Local Government
- MPO
 - Military
- University Educator
- ☐ University Researcher
- Researcher
- Consultant
- Professional Organization staff member

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2. Organization Membership/Participation

- □ T'R F
- AASHTO
- □ ITE
- J ARTBA
- □ A
- 113
- □ NTSB
- CVVSA
 - Roadway Safety Foundation
- AAA Foundation for Traffic Safet
- NAGHSI
- □ CRASE
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Organization Membership/Participation

- Over 200 ITE
- Over 70 TRR
- · Over 20 A A SHITO
- Over 140 multiple organizations
- Over 50 other organizations (Assoc. of Pedestrian and Bicycle Professionals, Transportation Ass. of Canada, League of American Bicyclists, etc)

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3. Highway Safety Manual Structure

- Parts I to V Topics' Headings were listed for information
- What else? Any changes?

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Highway Safety Manual Structure What Else?

Part I: Introduction and Fundamentals

- Give a 10-year overview of safety statistics
- Introduce non-motorized crashes in the fundamentals of road safety
- Add
 - · Speed Management and Safety Effects
 - · Weather and Safety
 - · Design Consistency and Safety

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Highway Safety Manual Structure What Else?

Part II: Knowledge

- New Chapter: Safety Conscious Planning; Long-Term Planning and Safety; Safety in System and Project Planning stages
- New Chapter: Safety and Context Sensitivity Design and Public Participation
- Add Safety Effects of:
 - · Traffic Calming and Traffic Diversion
 - · Railway Crossings at different situations
 - Surface Type and Condition
 - · Driveway spacing and throat length
 - Signing/striping
 - Intersection Spacing

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Highway Safety Manual Structure What Else?

Part II: Knowledge

- Include Residential / Local Streets in Highway Segments (Highway to be renamed Road²²)
- Separate: "Safety Effects of Pedestrian Facilities" and "Safety Effects of Bioxelist Facilities"
- Consider explicitly Pedestrian and Bicyclist, Moped and Motorcyclist in ALL parts including interchanges, etc – disagreement; some ask for individual sections
- ITS and Safety
- School Zone and Safety
- Pedestrian and Transit Interactions and Safety

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Highway Safety Manual Structure What Else?

Part II: Knowledge

- Explicit safety effects of roundabouts, 4-leg and 3-leg intersections (and their relationships)
- Explicit differentiation between recreational and commuting roads; urban and rural
- New measures with required enforcement and education to support engineering innovations
- Safety Issues re: Maintenance, Work Zones and Construction
- Safety of non-recurring situations

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Highway Safety Manual Structure What Else?

Part II: Knowledge

- Safety Effects of Light-Rail
- Roadside Safety as part of highway design element
- Add explicit consideration of "cross street" in the safety effects of interchanges

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Highway Safety Manual Structure What Else?

Part III: Predictive Models

- Explicit consideration of Traffic Mix
- Add
 - · Freeways urban and rura
 - Highways 3- and 4-lane highways separately; divided/undivided: 5-lane and conversions
 - Urban local streets: with/out parallel parking; 2-lane; residential streets: with exclusive/shared bike lane.
 - Interchanges urban and rural; different type:
 - Intersections 3- and 4-leg: urban, suburban, rura

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Highway Safety Manual Structure What Else?

Part IV: Safety Management of Roadway Systems

- How often to screen? Provide guidelines on screening procedures and required databases
- Countermeasures combining 3 E's
- Countermeasures that are feasible and have proven positive safety impacts
- Special provision for pedestrian and bicyclist safety management

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Highway Safety Manual Structure What Else?

Part V: Safety Evaluation

- _ Add
 - Data gathering methods
 - Statistical analysis techniques
 - Strengths/weaknesses of analytical methods

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Highway Safety Manual Structure What Else?

Other comments:

- Crash or collision not accident
- Consider all road users and not only drivers
- Promote a non-bias and misleading terminology: <u>improvements</u> at a location may have negative impacts elsewhere and/or affects different road users differently use modification or change
- Link to software
- Consider crash prevention approach
- New Chapter: Road Safety Audit

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4. Prioritize the Scope for the FISIM

Operations	mgn -	Medium _	Low	
	High _	Medium _		
Preliminary design	High 🔲	Medium 🔲	Low	
Feasibility/planning/conceptual design	High 🔲	Medium 🔲		
Final design	High 🗖	Medium 🔲	Low	
	High 🔲	Medium 🗖	Low	
Construction	High ■	Medium	Low	
	High 🔲	Medium	Low	

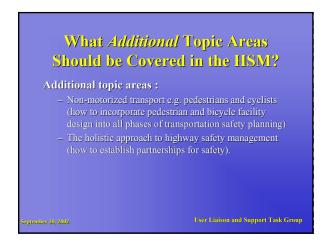
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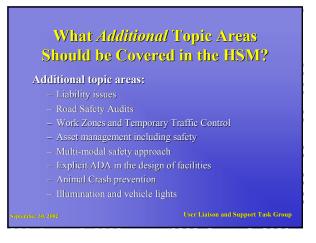
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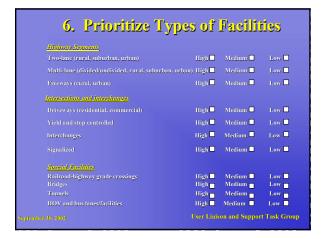


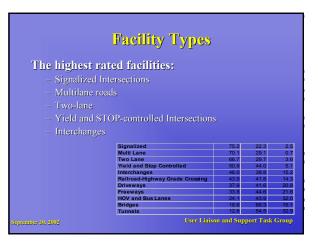


Ceneral Topic Areas The highest rated topic areas: Safety Analyses Safety Principles Measures of Safety Methods to Predict Safety Impact Decision-Making Tools Safety Analyses Highway Safety Principles Measures of Safety Methods to Predict Safety Impact Decision-Making Tools Safety Analyses Measures of Safety Methods to Predict Safety Impact Methods to Predict Safety Impact Methods to Predict Safety Impacts Methods to Predict Safety Impacts

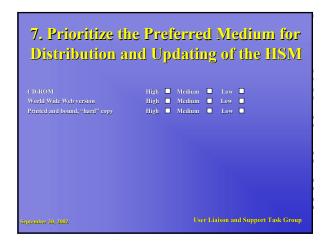


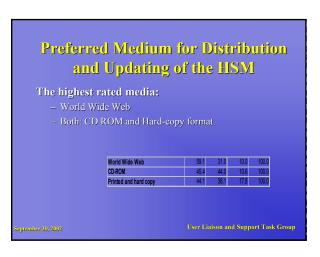


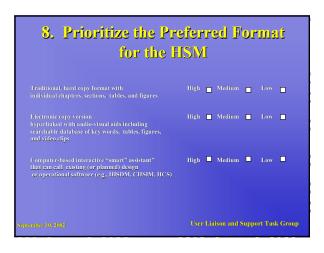




What Additional Topic Areas Should be Covered in the HSM? - Bicycle and pedestrian facilities - bicycle lanes, sidewalks, crosswalks, school crossings and sidewalks, shared-use lanes, etc. - Roundabouts - Interfaces between facilities (Ped - Transit; Ped - Bicyclist) - Transit facilities - bays, LRT, BRT - Transitions - Passing and Climbing lanes - Traffic "Calmed" corridors / areas









What Additional Formats?

Additional formats:

- We need all formats to reach all professionals
- A field-edition to take to site visits
- Updates via-Web for quick and continuous updates
- The latest technology in 5 years
- As MHTCD

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9. Future Participation?

- Positive: 241 respondents
- Other contacts for future follow-up: about 80 names

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10. What Would be your Immediate Application of HSM?

Popular answers:

- Safety Prediction variety of road types and projects
- Selection of measures based on safety effect
- Budget allocation and funding for safety projects
- Preparation of a road safety audit plan for future design/construction projects
- All types of road projects (life cycle)
- Assessment of the safety performance of existing roads
- A daily reference a professional handbook

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Immediate Application of HSM?

- Selection of most safety-effective facility / interface between facilities
- System-wide and planning programs with explicit safet
- Estimation of the safety effectiveness of ITS
- If there will be simple examples, spreadsheets, and videos of bad / good examples – immediate application
- Integration with training courses, university courses, and Association references' sources
- Depends if there is an interface with a software
- Prepare responses to citizens' complaints and politicians' requests

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Immediate Application of HSM?

- _ Vesterday
- Immediate!
- Tomorrow
- The day after tomorrow!!
- Within one month
- In 2 months

11. Other Comments?

- Stay focused: clear English
- Timely topic: already overdu
- Require funds
- Ensure all road users are considered
- Five years is too long
- I would like to participate
- Thank you for your effort

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Questions Thank you September 30, 2002 User Linison and Support Task Group